

# MILAN KACAR

## Software & Survey Engineer

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## ABOUT ME

I am a Software Engineer & Survey Engineer with 5+ years of professional experience. I graduated Geodesy at Graz University of Technology in Austria, where I worked as a project and teaching assistant. Currently, I am working in the e-commerce & fintech industry for Niceshops GmbH and Gateway Ventures GmbH as a Data Scientist / Engineer / Analyst. I grew up in Mrkonjic Grad (Republic of Srpska, BA) where I finished high school with Mathematics, Logic, and Physics at a Higher Level.

## PERSONAL INFORMATION

📅 Date of birth	01.09.1995
📍 Birthplace	Banja Luka, BA
🚩 Citizenship	Austrian
❤️ Marital status	Single
♂️ Sex	Male

## EDUCATION

BSc Geomatics Engineering  
University of Technology, TU Graz  
📅 2015 - 2019    📍 Graz, Austria

Master's Degree Programme - Geodesy  
University of Technology, TU Graz  
📅 2019-2024    📍 Graz, Austria

Master's Degree Programme - Computer Science  
University of Technology, TU Graz  
📅 2020-2024    📍 Graz, Austria

## WORK AND PERSONAL PROJECTS

- **Data Integration & ETL Pipelines** - Manage data integration and ETL pipelines, ensuring high-quality data processing and governance for analytics and reporting at Niceshops GmbH and Gateway Ventures.
- **Data Lake & Warehouse Management** - Led the development of a data lake at Gateway Ventures and currently maintain the data warehouse at Niceshops GmbH, optimizing data storage and accessibility.
- **Forecasting & Business Analytics** - Analyze trends, forecast demand, and optimize business performance by integrating data from Google Analytics, Facebook, TikTok, and in-house sources.
- **Automated Reporting & Dashboards** - Develop automated reports and dashboards in Looker and other platforms to support CEOs and departments with data-driven decision-making.
- **Anomaly Detection & Pattern Recognition** - Identify inefficiencies, detect anomalies, and improve business operations by recognizing patterns in large datasets.
- **Personal Blog on Programming, AI, Math, and Finance** - Share insights on AI, mathematics, finance, and LeetCode challenges through technical articles and problem-solving discussions.

## TECHNICAL STRENGTH

Python	●●●●●
Google Cloud	●●●●●
C/C++	●●●●●
GIS	●●●●●
PostgreSQL	●●●●●
AWS	●●●●●
Navigation	●●●●●
GNSS	●●●●●
Signal Processing	●●●●●
Java	●●●●●
Data Structures & Algorithms	●●●●●
MySQL	●●●●●
Docker	●●●●●
Java Script	●●●●●
PHP	●●●●●
Linux	●●●●●
R	●●●●●
Apache Spark	●●●●●
Kubernetes	●●●●●
Databricks	●●●●●
Scala	●●●●●

# DISSERTATION WORK

## BSc Thesis

### Database for cycling routes

- Entity Relationship Diagram.
- Building the Database.
- Conversion from analog to digital maps.

## MSc Thesis

### PV (Photovoltaic) panels detection from satellite images

- Project uses AI (Artificial intelligence) and ML (Machine learning) as a hybrid approach to detect panels.
- Building an independent model to work on different datasets.
- Cloud computing
- YOLOv5

# WORK EXPERIENCE

## Survey Engineer

### GEODATA

📅 July 2019 - December 2020      📍 Semmering Basistunnel, Austria

Tunnel surveying | 3D Laser scanner measurements

## Teaching Assistant

### TU Graz

📅 March 2021 - January 2022      📍 Graz, Austria

Integrated navigation | Sensor fusion | Indoor navigation

## Software Engineer

### TU Graz

📅 Sep 2019 - January 2022      📍 Graz, Austria

Software Architect | Project Management | Automation | Data Analysis | ML Forecasting | Statistics | Automotive Battery and Electric Vehicle Testing

## Data Scientist & Data Engineer

### niceshops GmbH

📅 January 2021 - pending      📍 Vienna, Austria

Finances (all types of tasks) analysis | Data Engineering | Large scale data crawling | Cloud computing | GCP | Looker | AI & ML tasks | Courses inside the house / teaching (Looker) | Research about demand forecasting |

## Data Engineer / TL

### Gateway Ventures GmbH

📅 August 2023 - pending      📍 Vienna, Austria

Startup Founding | Startup Valuation models | Pitch Deck Analyzer | Tinder for Investors/Startups | Data Lake construction | Data Mining | Data Scraping | Project Management | Investor matchmaking tool

# STRENGTHS

- Hard-working
- Decision Making
- Ability to Work Under Pressure
- Motivator & Leader
- Conflict Resolution
- Time Management
- Target oriented
- Able to travel
- Flexibility and Adaptability
- Problem solver

# LANGUAGES

Serbian | Croatian | Bosnian      ●●●●●●

English      ●●●●●●

German      ●●●●●●

Russian      ●●●●●●

# HOBBIES

- 📖 **Reading**  
I am trying to read a book per week.
- 🎨 **Sports Addict**  
At a young age I enjoyed playing tennis, but my interests migrated towards Fitness and healthy food.
- ✈️ **Travelling**  
After living in a rustic, small town for the past 18 years, I was craving change and adventure. Ten years later, I've traveled to more places during college than the first two decades of my life.
- 📈 **Trading**  
I love to analyze the markets and factors that may impact the price on daily/weekly and long term basis.